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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/685,384	10/10/2000	Lin He	SP00-291	4601
22928	7590 04/28/2003		_	
CORNING INCORPORATED			EXAMINER	
SP-TI-3-1 CORNING, 1	NY 14831		JOHNSON, EDWARD M	
			ART UNIT	PAPER NUMBER
			1754	
		DATE MAILED: 04/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Application No.	Applicant(s)				
			HE ET AL.				
	Office Action Summary	09/685,384 Examiner	Art Unit				
	•						
	The MAILING DATE of this communication app	Edward M. Johnson	1754   orrespondence address				
Period fo			<b>,</b>				
THE N - Exter after - If the - If NO - Failui - Any n	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	ely filed s will be considered timely. the mailing date of this communic 0 (35 U.S.C. § 133).	cation.			
1)[🛛	Responsive to communication(s) filed on 14 A	April 2003 .					
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-final.					
3)  Dispositi	Since this application is in condition for alloward closed in accordance with the practice under a con of Claims	ince except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 4	osecution as to the mer 53 O.G. 213.	its is			
4)🖂	Claim(s) 1,3-29 and 31-34 is/are pending in th	e application.					
•	4a) Of the above claim(s) is/are withdrav	vn from consideration.					
5)[🖂	Claim(s) 29 and 31-34 is/are allowed.	•					
6)⊠	Claim(s) 1 and 3-28 is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application	on Papers						
	The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
	The oath or declaration is objected to by the Example 25 LL 2 C 28 442	aminer.					
	nder 35 U.S.C. §§ 119 and 120						
i _	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a)L	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents						
i	2. Certified copies of the priority documents						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14)□ A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	) (to a provisional applic	cation).			
	The translation of the foreign language procedures the translation of the foreign language procedures the translation of the foreign language procedures the translation of the translation of the translation of the foreign language procedures the	• •					
Attachment							
2)  Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				
U.S. Patent and Tra PTO-326 (Rev	± + =	tion Summary	Part of Paper N	No. 13			

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#### DETAILED ACTION

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito et al. US 5,935,529.

Regarding claim 1, Saito '529 discloses an exhaust gas catalyst system for nitrogen oxides into ammonia (see abstract and column 2, lines 19-21) comprising supports of titania, zinc oxide, or magnesium oxide (see column 5, lines 3-9) impregnated with noble metals such as platinum, palladium, and iridium (see abstract and column 6, lines 37-50 and 60-63).

Regarding claim 3, Saito '529 discloses 0.1% or less (see column 6, lines 50-52).

Regarding claims 4-5, the claimed range includes zero and Saito '529 discloses iridium (see abstract).

Regarding claims 6-7, 10-11, 14-15, the claimed range includes zero and Saito '529 discloses 5% or less cesium and/or potassium (see column 6, lines 21-28).

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Regarding claims 8-9, 12-13, 16-21, the claimed range includes zero and Saito '529 discloses 5% or less of oxides of lanthanum and cerium (see column 5, lines 56-58 and column 6, lines 22-26 and 32-35).

Regarding claims 22-28, the claimed range includes zero and Saito '529 discloses 5% or less cesium and/or potassium (see column 6, lines 21-28) and 5% or less of oxides of lanthanum and cerium (see column 5, lines 56-58 and column 6, lines 22-26 and 32-35).

3. Claims 1 and 3-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Kobylinski et al. US 3,907,968.

Regarding claim 1, Kobylinski '968 discloses a catalyst for removing NOx to ammonia (see column 4, lines 61-66) comprising supports of magnesia and titania impregnated with (see column 4, lines 6-8 and 45-49) metal ruthenates (see column 3, lines 50-63).

Regarding claim 3, Kobylinski '968 discloses 0.05-0.5% Ru (see Experiment 13).

Regarding claims 4-28, all the claimed ranges include zero and Kobylinski '968 discloses composite oxides of Mo, Mn, Cs, Ba, K, and Ce (see column 3, lines 20-25 and 50-63).

#### Allowable Subject Matter

4. Claims 29 and 31-34 are allowed.

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5. The following is a statement of reasons for the indication of allowable subject matter: A catalyst comprising the compound of the formula of the instant claim 29 would not have been obvious to one of ordinary skill in the art at the time the invention was made.

### Response to Arguments

6. Applicant's arguments with respect to claims 1 and 3-28 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pomot '073 discloses a catalyst for removal of NOx, wherein ammonia is produced comprising various catalyst metals (see abstract and Examples); Komatsu '976 discloses a nitrogen oxide converter to ammonia for purifying exhaust gases (see column 1, lines 9-12 and column 2, lines 46-50) comprising impregnated carriers and catalysts of various metals (see abstract and Examples).
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward M. Johnson whose telephone number is 703-305-0216. The examiner can normally be reached on M-F 6:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

EMJ

April 23, 2003

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